

Discharge ionization detector

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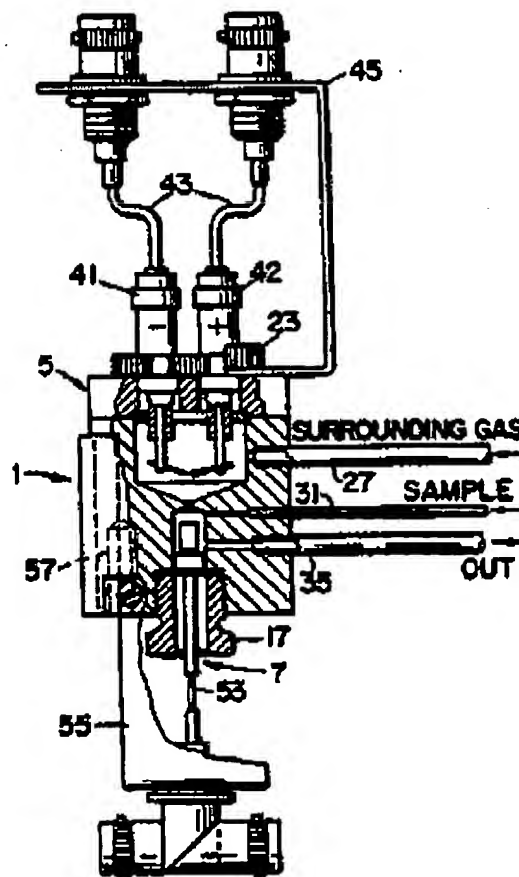
Cited documents:

US4789783
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Abstract of EP0410665

A discharge ionization detector which comprises with a cylindrical housing wherein is formed a discharge chamber at one end, and wherein is formed an ionization chamber at the other end an aperture connecting the chambers, arc electrodes being located in the discharge chamber, and emitter/collector electrodes being located in the ionization chamber, the latter comprising flat parallel plates, the housing being provided with an inlet into the discharge chamber for delivering discharge gas to the discharge chamber which discharge gas leaves the discharge chamber through the aforementioned aperture, with an inlet into the ionization chamber for delivering sample gas to the ionization chamber, and with an outlet from the ionization chamber for carrying the mixed discharge gas and sample gas out of the ionization chamber. The discharge gas and sample gas mix then pass between the flat parallel emitter/collector plates before leaving the ionization chamber through the outlet. The ionization chamber should be less than about 500 microliters in volume.



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